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|------|---|------|--|
| 1    | <b>BODY MEMBER PRINTING (E.G., FINGERPRINTING, ETC.)</b>  | 2.24 | .Implantable permanent prosthesis (i.e., artificial body member) (e.g., pacemaker, lens, cornea, glaucoma shunt, heart valve, muscle, spinal disc, breast, internal organ)                       |
| 2.1  | <b>MEDICAL OR DENTAL PURPOSE PRODUCT; PARTS; SUBCOMBINATIONS; INTERMEDIATES (E.G., BALLOON CATHETER, SPLINT)</b>  | 2.25 | ..Liquid conveying (e.g., vascular, arterial, bile duct, urethra)  |
| 2.11 | .Analysis, diagnosis, measuring, or testing product (e.g., specimen preparation, microscope slide smearing)   | 2.26 | ..For mineralized body part (e.g., bone, tooth, crown, hip)  |
| 2.12 | ..For contacting living body or transfusing bodily fluid (e.g., endoscope, electrode, thermometer, probe)   | 2.27 | ...Inorganic oxygen-containing compound containing layer formed (e.g., hydroxyapatite, ceramic, glass)   |
| 2.13 | ..Layer formed contains chemical reagent or chemically reacts with substrate (e.g., cell stain or fix, pH paper, immobilized antigen)                                   | 2.28 | .Device for creating or holding open an unnatural opening in a membrane or organ (e.g., syringe, scalpel, drainage tube)   |
| 2.14 | ..Particulate or unit-dosage-article base (e.g., tablet, pill, pellet, capsule, liposome, powder, controlled-release implant, suppository; excluding transdermal patch) | 2.29 | .Dental product (e.g., floss, denture, orthodontia wire)   |
| 2.15 | ..Fluidized bed utilized  | 2.3  | .Fluid barrier or fluid transporting product, other than merely absorbing (e.g., surgical glove, condom, lined diaper, membrane filter, IV tubing, cannula, dialysis membrane, urinary catheter) |
| 2.16 | ...Retarded or controlled-release layer produced (e.g., enteric)  | 2.31 | .Flexible web, sheet, film, or filament base (e.g., fabric, bandage, suture, transdermal patch, orthopedic cast tape)  |
| 2.17 | ...Significant color or other intended appearance altering layer formed (e.g., shining, indicia)  | 4    | <b>PLANT MEMBER OR ANIMAL SPECIMEN COATING</b>   |
| 2.18 | ..En masse rotating means employed (e.g., rotating pan, tumbling)   | 5    | <b>RADIOACTIVE BASE OR COATING</b>   |
| 2.19 | ...Retarded or controlled-release layer produced (e.g., enteric)  | 6    | .Particles or nuclear reactor fuel elements coated   |
| 2.2  | ...Significant color or other intended appearance altering layer formed (e.g., shining, indicia)  | 7    | <b>FRAUD OR TAMPER DETECTING</b>   |
| 2.21 | ..Retarded or controlled-release layer produced (e.g., enteric)   | 8    | <b>MEASURING, TESTING, OR INDICATING</b>   |
| 2.22 | ..Gelatin matrix layer produced   | 9    | .Thickness or uniformity of thickness determined   |
| 2.23 | ..Significant color or other intended appearance altering layer formed (e.g., shining, indicia)   | 10   | ..Electrical or optical  |
|      |   | 11   | <b>FRICTIONAL APPLICATION (I.E., RUBBING SOLID COATING MATERIAL ON BASE)</b>   |
|      |   | 446  | <b>SPRAY COATING UTILIZING FLAME OR PLASMA HEAT (E.G., FLAME SPRAYING, ETC.)</b>   |
|      |   | 447  | .Organic containing coating  |
|      |   | 448  | .Nonuniform or patterned coating   |

449	.Continuous feed solid coating material (e.g., wire, rod, or filament, etc.)	473	...Inorganic substrate
450	.Inorganic carbon containing coating, not as steel (e.g., carbide, etc.)	474	...Solid particles applied
451	..Additionally containing nickel, cobalt, or iron as free metal or alloy	475	..Solid particles or atomized liquid applied
452	.Silicon containing coating	476	...Inside hollow articles
453	.Metal oxide containing coating	477	...Articles or substrates sequentially moved past atomizing source
454	..Superposed diverse or multilayer similar coatings applied	478	....Collection of off-target or fugitive coating material
455	.Metal or metal alloy coating	479	....Utilizing multiple spray sources (e.g., atomizers)
456	..Aluminum, nickel, cobalt, or iron metal or alloy containing coating	480	....Movable atomizer or spray source (e.g., spray source or atomizer rotates, reciprocates, oscillates, etc.)
457	<b>DIRECT APPLICATION OF ELECTRICAL, MAGNETIC, WAVE, OR PARTICULATE ENERGY</b>	481	....Rotatable base or support for substrate
458	.Electrostatic charge, field, or force utilized	482	...Running or indefinite length substrate
459	..Fluidized bed utilized	483	...Utilizing apparatus to atomize and electrostatically charge liquid coating material (e.g., charging electrode adjacent spray source, etc.)
460	...Ionization or corona discharge utilized	484	....Rotatable atomizer or spray source
461	...Heating or fusing applied coating	485	...Coating contains organic material
462	..Flock or fiber applied	486	....Inorganic substrate
463	...Pile- or nap-type surface formed	487	.Polymerization of coating utilizing direct application of electrical, magnetic, wave, or particulate energy (i.e., including cross-linking, curing, and hardening of organics)
464	....Heating, drying, or cooling adhesive surface	488	..Plasma initiated polymerization
465	....Organic substrate specified (e.g., fabric, etc.)	489	...Organosilicon containing coating
466	..Nonuniform or patterned coating (e.g., ink jet printing, etc.)	490	...Fluorocarbon containing coating
467	...Edging or striping	491	...Organic substrate
468	...Mask or stencil utilized	492	..Multiple applications of identical radiation energy source to polymerize (e.g., pulse, flash, lamp, etc.)
469	...Coating material consists of charged particles (e.g., paint, pigment, dye, etc.)	493	..Application of plural diverse energy sources to polymerize (e.g., electromagnetic wave plus resistance heat, ultraviolet wave plus infrared wave, etc.)
470	..Superposed diverse or multilayer similar coatings applied		
471	..Applying coatings to opposite sides of a substrate (excluding processes where all coating is by immersion)		
472	..Positioning, orientation, or application of nonsprayed, nonatomized coating material solely by electrostatic charge, field, or force		

494	..Gloss control (e.g., light scattering, etc.)	516	...Coating is adhesive or is intended to be made adhesive (e.g., release sheet or coating, etc.)
495	..Polymerization involving the control of oxygen containing gas as an inhibitor (e.g., air, etc.)	517	...Coating includes specified rate affecting material
496	..High energy electromagnetic radiation or high energy particles utilized (e.g., gamma rays, X-rays, atomic particles, i.e., alpha rays, beta rays, electrons, etc.)	518	....Inorganic substrate
497	...Vapor deposition utilized	519	....Keto or aldehyde containing group is part of the rate affecting coating material (e.g., benzoin, benzophenone, acetaldehyde, etc.)
498	...Immersion, partial immersion, spraying, or spin coating utilized (e.g., dipping, etc.)	520	...Benzene ring or nitrogen containing coating material
499	....Natural cellulose substrate	521	...Radiation as heat source (e.g., radiant energy, etc.)
500	...Coating material includes colorant or pigment	522	..Resistance or induction heat-initiated polymerization
501	...Textile, fiber, or wire coated or impregnated	523	.Ion plating or implantation
502	...Magnetic recording medium formed	524	..With simultaneous sputter etching of substrate
503	...Organosilicon containing coating material	525	..Organic material present in substrate, plating, or implanted layer
504	...Nonuniform or patterned coating (e.g., mask, printing, etc.)	526	..Nonuniform or patterned ion plating or ion implanting (e.g., mask, etc.)
505	...Coating is adhesive or intended to be made adhesive (e.g., release sheet or coating, etc.)	527	..Silicon present in substrate, plating, or implanted layer
506	...Benzene ring or nitrogen containing coating material	529	..Inorganic oxide containing plating or implanted material
507	....Styrene or carboxamide group containing coating material (e.g., urea, urethane, etc.)	530	..Inorganic metal compound present in plating or implanted material (e.g., nitrides, carbides, borides, etc.)
508	..Low energy electromagnetic radiation utilized (e.g., UV, visible, IR, microwave, radio wave, actinic, laser, etc.)	528	..Metal or metal alloy substrate
509	...Vapor deposition utilized	531	..Metal or metal alloy plating or implanted material
510	...Nonuniform or patterned coating (e.g., mask, printing, textured, etc.)	532	.Pretreatment of substrate or post-treatment of coated substrate
511	....Printing ink utilized	533	..Ionized gas utilized (e.g., electrically powered source, corona discharge, plasma, glow discharge, etc.)
512	...Immersion, partial immersion, spraying, or spin coating utilized (e.g., dipping, etc.)	534	...Cleaning or removing part of substrate (e.g., etching with plasma, glow discharge, etc.)
513	...Textile or fiber coated or impregnated	535	...Plasma (e.g., cold plasma, corona, glow discharge, etc.)
514	...Coating material includes colorant or pigment	536	....Organic substrate
515	...Organosilicon containing coating material	537	.....Metal containing coating
		538	.....Textile or fiber coated or impregnated

539	....Oxygen containing atmosphere	566	..Electron irradiation (e.g., e-beam evaporation, etc.)
540	..Arc or electrical discharge	567	...Silicon or metal oxide coating (e.g., glass, etc.)
541	..Drying	568	..Silicon containing coating supply or source
542	...Infrared or radiant heating	569	.Plasma (e.g., corona, glow discharge, cold plasma, etc.)
543	..Induction or dielectric heating	570	..Utilizing plasma with other nonionizing energy sources
544	...Organic coating containing material	571	...With magnetic enhancement
545	..Resistance heating	572	...Light as energy source
546	...Metal or metal alloy containing coating	573	...With heated substrate
547	..Magnetic field or force utilized	574	...Silicon containing coating
548	...Magnetic recording medium or device formed	575	..Generated by microwave (i.e., 1mm to 1m)
549	....Running length substrate	576	..Metal, metal alloy, or metal oxide coating
550	...Magnetizable powder, flakes, or particles utilized	577	..Inorganic carbon containing coating material, not as steel (e.g., carbide, etc.)
551	..High energy electromagnetic radiation or high energy particles utilized (e.g., gamma ray, X-ray, atomic particle, i.e., alpha ray, beta ray, high energy electron, etc.)	578	..Silicon containing coating material
552	...Nonuniform or patterned coating	579	...Silicon oxides or nitrides
553	..Low energy electromagnetic radiation (e.g., microwave, radio wave, IR, UV, visible, actinic, laser, etc.)	580	.Electrical discharge (e.g., arcs, sparks, etc.)
554	...Laser	581	.Chemical deposition from liquid contiguous with substrate via electron beam or light (e.g., photochemical liquid deposition, etc.)
555	....Nonuniform or patterned coating	582	.Photoinitiated chemical vapor deposition (i.e., photo CVD)
556	....Metal or metal alloy substrate	583	..Silicon containing coating
557	...Thermal processes (e.g., radiant heat, infrared, etc.)	584	..Metal, metal alloy, or metal oxide coating
558	....Ultraviolet light	585	.Chemical vapor deposition (e.g., electron beam or heating using IR, inductance, resistance, etc.)
559	....Fusing, curing, or annealing (e.g., ceramics, etc.)	586	..Pyrolytic use of laser or focused light (e.g., IR, UV lasers to heat, etc.)
560	..Sonic or ultrasonic (e.g., cleaning or removing material from substrate, etc.)	587	..Resistance or induction heating
561	.Pretreatment of coating supply or source outside of primary deposition zone or off site	588	...Silicon or semiconductor material containing coating
562	..Electric discharge (e.g., corona, glow discharge, etc.)	589	....Silicon carbide
563	...Silicon containing coating material	590	...Boron, nitrogen, or inorganic carbon containing coating
564	...Metal, metal alloy, or metal oxide containing coating material	591	.Induction or dielectric heating
565	..Sonic or ultrasonic (e.g., vibratory energy, etc.)	592	.Resistance heating
		593	..Vapor deposition employing resistance heating of substrate or coating material
		594	..Immersion or partial immersion

595	..Electromagnetic or particulate radiation utilized (e.g., IR, UV, X-ray, gamma ray, actinic, microwave, radio wave, atomic particle; i.e., alpha ray, beta ray, electron, etc.)	96.3	...Electromagnetic wave energy shield (e.g., electromagnetic wave shield (EWS), etc.)
596	..Laser or electron beam (e.g., heat source, etc.)	96.4	...Conformal (e.g., thin film <.02mm thick, etc.)
597	...Metal or metal alloy containing coating material applied	96.5	...Mechanical shock, stress, or physical damage absorbing or shielding (e.g., scratch or puncture-resistant coating, etc.)
598	..Magnetic field or force utilized	96.6	...Barrier to diffusion of specific fluid (e.g., silicone rubber, selectively permeable membrane which excludes water or moisture, etc.)
599	..Magnetic recording medium or device formed		
600	..Sonic or ultrasonic		
601	..Immersion bath utilized	96.7	..Using mist or aerosol
58	<b>ELECTRICAL PRODUCT PRODUCED</b>	96.8	..Vapor or gas deposition
59	..Welding electrode	96.9	..Front and back of substrate coated (excluding processes where all coating is by immersion)
60	..Post-treating with solid treating member		
61	..Metal coating or Group IIA metallic compound containing coating	97.1	..Multilayer
62	..Superconductor	97.2	...Coating hole wall
63	..Nonuniform coating	97.3	...Nonuniform or patterned coating
64	..Fluorescent or phosphorescent base coating (e.g., cathode-ray tube, luminescent screen, etc.)	97.4	....With posttreatment of coating or coating material
65	..X-radiation properties	97.5	.....Polymer deposited
66	..Electroluminescent lamp	97.6	...With posttreatment of coating or coating material
67	..Fluorescent lamp	97.7	..Coating hole wall
68	..Multicolor or mosaic (e.g., color T.V. tube, etc.)	97.8	...With pretreatment of substrate
69	..Vapor deposition	97.9	....Immersion metal plating from solution (e.g., electroless plating, etc.)
70	...Nonmetallic coating formed by vapor deposition	98.1	....Activating or catalyst pretreatment
71	..Particles applied	98.2	...With posttreatment of coating or coating material
72	..Rotating the base	98.3	....Heating (e.g., curing, etc.)
73	..Settling out of liquid	98.4	..Nonuniform or patterned coating
74	..Photoelectric	98.5	...With pretreatment of substrate
75	..Mosaic or nonuniform coating	98.6	..With pretreatment of substrate
76	..Coating is selenium, tellurium, or compound thereof	98.7	...Swelling
77	..Electron emissive or suppressive (excluding electrode for arc)	98.8	...Etching or roughening
78	..Vapor deposition or spraying	98.9	...Heating
79	..Condenser or capacitor	99.1	...Activating or catalyst pretreatment
80	..Electrolytic or barrier layer type	99.2	..With posttreatment of coating or coating material
81	..Vacuum or pressure utilized	99.3	...Planarization
96.1	..Integrated circuit, printed circuit, or circuit board	99.4	...Polymer deposited
96.2	..Protective coating (e.g., encapsulating, etc.)	99.5	..Immersion metal plating from solution (e.g., electroless plating, etc.)

100	.Piezoelectric properties	135	.Metal mold
101	.Resistor for current control (excludes heating element)	136	<b>COATING PAVEMENT OR THE EARTH (E.G., ROADMAKING, ETC.)</b>
102	..Nonuniform coating	137	.Striping, marking, or increasing reflectivity
103	..Applying superposed diverse coatings or coating a coated base	138	.Asphalt, bitumen, oil, or tar containing coating
104	.Motor stator or core for winding	139	..Rolling
105	.Hollow article	140	<b>RESTORING OR REPAIRING</b>
106	..Glass (e.g., light bulb, etc.)	141	.Carbon paper or inked ribbon
107	...Vapor deposition	142	.Metal article
108	.Transparent base	143	<b>STENCIL BLANK MAKING</b>
109	..Vapor deposition	144	<b>HECTROGRAPHIC OR COPYING SURFACE MAKING</b>
110	..Spraying		
111	.Filament for lamp or tube	145	<b>LATENT IMAGE FORMED OR DEVELOPED</b>
112	..Carbon filament	146	<b>TRANSFER OR COPY SHEET MAKING</b>
113	.Carbon base	147	.Decal or embossing foil type (i.e., continuous film transfers)
114	..Brushes		
115	.Fuel cell part		
116	.Coil or winding	148	..Heat sensitive
117	.Wire conductor	149	..Fluid releasable
118	..Applying superposed coatings or coating a coated base	150	.Reactive components
119	..Foam, cellular, or natural rubber coating	151	..Heterocyclic organic compound component
120	..Heat utilized	152	.Coating opposite sides or forming plural or nonuniform coats
121	.Cellulosic or fibrous base (e.g., wood, paper, etc.)	153	.Carbon paper type
122	.Carbon coating	154	<b>REMOVABLE PROTECTIVE COATING APPLIED</b>
123	.Metal coating	155	.Organic base
124	..Vapor deposition or utilizing vacuum	156	.Metal base
125	..Silver, gold, platinum, or palladium	157	<b>FLUORESCENT OR PHOSPHORESCENT COATING</b>
126.1	.Metallic compound coating	158	.Optical brightening
126.2	..Glass or ceramic base or coating	159	<b>INCANDESCENT MANTLE PRODUCED</b>
126.3	..Metal oxide, peroxide, or hydroxide coating	160	<b>COATING HAS X-RAY, ULTRAVIOLET, OR INFRARED PROPERTIES</b>
126.4	...Metal is Al	161	<b>TRANSPARENCY OR TRANSLUCENCY INCREASED (E.G., MAKING WINDOW ENVELOPES, ETC.)</b>
126.5	...Metal is Au, Ag, Pt, Pd, Ru, Rh, Os, Ir	162	<b>OPTICAL ELEMENT PRODUCED</b>
126.6	...Metal is Ni, Fe, or Co	163.1	.Polarizer, windshield, optical fiber, projection screen, or retroreflector
127	<b>MAGNETIC BASE OR COATING</b>		
128	.Magnetic coating	163.2	..Optical fiber, rod, filament, or waveguide
129	..With pretreatment of base	163.3	..Projection screen
130	..With post-treatment of coating or coating material	163.4	..Retroreflector (e.g., light reflecting small spherical beads, etc.)
131	..Applying superposed diverse coating or coating a coated base		
132	..Metal coating	164	.Transparent base
133	<b>MOLD COATING</b>	165	..Glass
134	.Sand mold	166	...Vapor depositing

167	....Silicon compound coating (e.g., quartz, etc.)	202	.Applying superposed diverse coatings or coating a coated base
168	...Spraying	203	..Coating over the applied coating of particles
169	...Immersion	204	..Silicon compound containing particles (e.g., sand, etc.)
170	<b>DELUSTERING FABRIC OR YARN</b>	205	..Metal or metallic compound containing particles
171	<b>WITH STRETCHING OR TENSIONING</b>	206	..Flock or fibers applied
172	.Running lengths	207.1	<b>COATING REMAINS ADHESIVE OR IS INTENDED TO BE MADE ADHESIVE</b>
173	..Lateral stretching	208	.Application to opposite sides of base
174	..Particles or fibers applied	208.2	.Heat sensitive adhesive
175	..Cord, thread, yarn, or wire	208.4	.Pressure sensitive adhesive
176	..Textile fabric	208.6	..Nonuniform coating (e.g., perforated, etc.)
177	<b>WITH WINDING, BALLING, ROLLING, OR COILING</b>	208.8	..Applying superposed diverse coatings or coating a coated base
178	.Metal or glass base (e.g., wire, etc.)	209	<b>APPLICATION TO OPPOSITE SIDES OF SHEET, WEB, OR STRIP (EXCLUDING PROCESSES WHERE ALL COATING IS BY IMMERSION)</b>
179	.Paper or felt base	210	.Nonuniform coating
180	<b>SOLID PARTICLES OR FIBERS APPLIED</b>	211	.Roller applicator utilized
181	.Interior or hollow article coating	212	<b>PARTICLES, FLAKES, OR GRANULES COATED OR ENCAPSULATED</b>
182	..Fluidized bed utilized	213	.Fluidized bed utilized
183	..Rotating the base	213.3	.Solid encapsulation process utilizing an emulsion or dispersion to form a solid- walled microcapsule (includes liposome)
184	.Nonuniform speed or nonrectilinear base motion	213.31	..With post-treatment of encapsulant or encapsulating material (e.g., further coating, hardening, etc.)
185	.Fluidized bed utilized	213.32	...Hardening
186	.Roofing produced	213.33	....Using crosslinking agent
187	..With cutting	213.34	..Solid-walled microcapsule formed by in situ polymerization
188	..Localized different areas produced	213.35	..Solid-walled microcapsule formed from gelatin or derivative thereof
189	.Uniting particles to form continuous coating with nondiscernible particles	213.36	..Solid-walled microcapsule formed from preformed synthetic polymer
190	..Metallic compound particles	214	.Applying superposed diverse coatings or coating a coated base
191	..Metal particles	215	.Inorganic base
192	...Aluminum, copper, or zinc particles	216	..Metal base
193	..Vitrifiable particles		
194	..Roller utilized		
195	..Synthetic resin particles		
196	.Plural direction application of coating materials or simultaneously applying particles and binder from different sources		
197	.Localized different areas produced (e.g., printing, etc.)		
198	..Deforming the base or coating or removing part of the coating		
199	..Silicon compound, metal, or metallic compound containing particles applied		
200	..Flock or fibers applied		
201	.Plural particulate materials applied		

217	..Metal coating	249.6	..Graphite coating
218	..Pigment containing coating	249.7	..Diamond-like carbon coating (i.e., DLC)
219	...Silicon compound containing coating	249.8	..Diamond coating
220	..Organic coating	249.9	...Patterned or non-uniform coating
221	...Resin, rubber, or hardenable oil containing coating	249.11	...Hot filament utilized
222	..Resin base	249.12	...Diamond seed crystals utilized
223	<b>FLAME CONTACT</b>	249.13	...Tungsten containing base
224	..After coating	249.14	...Superposed coatings (i.e., layered)
225	..Metal coating	249.15	..Silicon and carbon containing coating (e.g., silicon carbide, etc.)
226	<b>HEAT DECOMPOSITION OF APPLIED COATING OR BASE MATERIAL</b>	249.16	...Inorganic carbon base (e.g., graphite, etc.)
227	..Base material decomposed or carbonized	249.17	..Metal carbide containing coating
228	..Coating decomposed to form carbide or coating carbonized	249.18	...Chromium (Cr), molybdenum (Mo), or tungsten (W) metal carbide containing coating
229	..Coating decomposed to form metal	249.19	...Titanium (Ti), zirconium (Zr), or hafnium (Hf) metal carbide containing coating
230	<b>INTERIOR OF HOLLOW ARTICLE COATING</b>	250	..Metal coating
231	..Rotating the article	251	..Moving the base
232	..Removing excess coating material	252	..By decomposing metallic compound (e.g., pack process, etc.)
233	..Spraying	253	...Halogen containing compound
234	..Metal base	254	..Wood base
235	..Removing excess coating material	255.11	..Base includes an inorganic compound containing silicon or metal (e.g., glass, ceramic, brick, etc.)
236	..Spraying	255.12	..Chemical vapor infiltration (i.e., CVI) of porous base (e.g., fiber, fibrous web etc.)
237	..Coating by vapor, gas, mist, or smoke	255.13	..Glaze coating produced
238	..Vacuum or pressure utilized	255.14	..Organic compound containing coating
239	..Metal base	255.15	..Plural coatings applied utilizing vapor, gas, or smoke
240	<b>CENTRIFUGAL FORCE UTILIZED</b>	255.18	..Silicon containing coating
241	..Metal coating	255.17	...Halogen containing coating, reactant, or precursor
242	<b>RUMBLING OR TUMBLING</b>	255.19	..Metal oxide containing coating
243	<b>FORAMINOUS PRODUCT PRODUCED</b>	255.21	..Base includes inorganic metal containing compound
244	..Filter, sponge, or foam	255.22	...Iron compound containing base (e.g., ferric oxide, etc.)
245	..Microporous coating (e.g., vapor permeable, etc.)		
246	..Coagulating or jelling the coating		
247	..Metal base		
248.1	<b>COATING BY VAPOR, GAS, OR SMOKE</b>		
249.1	..Carbon or carbide coating		
249.2	..Chemical vapor infiltration (i.e., CVI) of porous base (e.g., fiber, fibrous web, etc.)		
249.3	..Fiber or fibrous web or sheet base (e.g., strand, filament, fabric, cloth, etc.)		
249.4	...Inorganic carbon base (e.g., graphite, etc.)		
249.5	..Boron and carbon containing coating (e.g., boron carbide, etc.)		



- 255.23 ..Mixture of vapors or gases  
(e.g., deposition gas and  
inert gas, inert gas and  
reactive gas, two or more  
reactive gases, etc.) utilized
- 255.24 ..Fiber or fibrous web or sheet  
based (e.g., strand, filament,  
fabric, cloth, etc.)
- 255.25 ..Mixture contains liquid or  
solid particulate suspension
- 255.26 ..Coating formed by reaction of  
vaporous or gaseous mixture  
with a base (i.e., reactive  
coating of non-metal base)
- 255.27 ...Silicon containing coating
- 255.28 ..Coating formed from vaporous or  
gaseous phase reaction mixture  
(e.g., chemical vapor  
deposition, CVD, etc.)
- 255.29 ...Inorganic oxygen, sulfur,  
selenium, or tellurium (i.e.,  
chalcogen) containing coating  
(e.g., phosphosilicate,  
silicon oxynitride, etc.)
- 255.31 ....Metal and chalcogen  
containing coating (e.g.,  
metal oxide, metal sulfide,  
metal telluride, etc.)
- 255.32 .....Plural metal containing  
coating (e.g., indium oxide/  
tin oxide, titanium oxide/  
aluminum oxide, etc.)
- 255.33 .....Zinc (Zn), cadmium (Cd), or  
mercury (Hg), containing
- 255.34 .....Gallium (Ga), aluminum (Al),  
or indium (In) containing
- 255.35 .....Germanium (Ge), tin (Sn), or  
lead (Pb) containing
- 255.36 .....Titanium (Ti) or zirconium  
(Zr) containing
- 255.37 ....Silicon dioxide coating
- 255.38 ...Phosphorus or boron containing  
coating (e.g., aluminum  
boride, boron phosphide etc.)
- 255.39 ...Halogen or halogen compound  
containing reactant
- 255.391 ....Titanium compound containing  
coating (e.g., titanium  
carbonitride, titanium  
nitride, etc.)
- 255.392 ....Tungsten compound containing  
coating (e.g., tungsten  
silicide, etc.)
- 255.393 ....Silicon containing coating
- 255.394 ...Nitrogen containing coating  
(e.g., metal nitride, etc.)
- 255.395 ..Inorganic coating
- 255.4 ..Base supplied constituent
- 255.5 ..Moving the base
- 255.6 ..Organic coating applied by  
vapor, gas, or smoke
- 255.7 ..Plural coatings applied by  
vapor, gas, or smoke
- 256 **NONUNIFORM COATING**
- 257 ..Wrinkled or crackled coating
- 258 ..Applying superposed diverse  
coatings or coating a coated  
base
- 259 ..Including a masking coating
- 260 ..Handheld brush or absorbent  
applicator utilized
- 261 ..Final coating nonuniform
- 262 ...Variegated surface produced  
(e.g., mottled, stippled, wood  
grained, etc.)
- 263 ....Marbleized
- 264 ...Deforming the base or coating  
or removing a portion of the  
coating
- 265 ...Plural nonuniform coatings
- 266 ....Glass or ceramic base
- 267 ..Variegated surface produced  
(e.g., mottled, stippled, wood  
grained, etc.)
- 268 ...Marbleized
- 269 ..Glass or ceramic base
- 270 ..Deforming the base or coating  
or removing a portion of the  
coating
- 271 ..Deforming the base or coating or  
removing a portion of the  
coating
- 272 ..Mask or stencil utilized
- 273 ..Fluid treating the coating  
(e.g., vapor treating, etc.)
- 274 ..Variegated surface produced  
(e.g., stippled, marbleized,  
mottled, wood grained, etc.)
- 275 ..Deforming the base
- 276 ...Simultaneously deforming the  
coating
- 277 ..Solid treating member contacts  
coating
- 278 ...Roller treating member
- 279 ..Vitreous coating
- 280 ..Variegated surface produced  
(e.g., mottled, wood grained,  
etc.)
- 281 ..Marbleized
- 282 ..Mask or stencil utilized

283	.Crystallization or precipitation coating	323	..Natural protein containing base (e.g., silk, wool, leather, etc.)
284	.Edge or border coating		
285	..Paper or textile base	324	..Cellulosic base
286	.Striping (i.e., forming stripes)	325	...Wood base
287	.Metal, glass, or ceramic base	326	...Paper base
288	.Paper or textile base	327	.Metal base
289	<b>WITH CUTTING, HOLDING, SEVERING, OR ABRADING THE BASE</b>	328	..Metal coating
290	.Prior to coating	329	...Molten metal bath utilized
291	..Wood base (e.g., injecting, etc.)	330	..Vitreous coating
292	..Inorganic base	331	<b>WITH POST-TREATMENT OF COATING OR COATING MATERIAL</b>
293	.Rectilinear cutting to length	332	.Deodorizing
294	<b>VACUUM UTILIZED PRIOR TO OR DURING COATING</b>	333	.Plural film forming coatings wherein one coating contains a chemical treating agent for the other
295	.Metal base		
296	.Organic base	334	.Oil or wax treatment of coating
297	..Wood base	335	.Solvent vapor treatment of coating
298	...Creosote, wax, oil, asphalt, or bitumen coating	336	.Swelling agent or solvent applied to treat coating
299	<b>WITH PRETREATMENT OF THE BASE</b>	337	.Chemical agent applied to treat coating
300	.Shielding or spacing	338	..Proteinaceous coating
301	.Preapplied reactant or reaction promoter or hardener (e.g., catalyst, etc.)	339	..Cellulosic coating
302	..Resin, rubber, or hardenable oil containing coating	340	..Resin, resin precursor, rubber, or hardenable oil containing coating
303	...Cellulosic base	341	...Inorganic treating agent
304	..Metal coating (e.g., electroless deposition, etc.)	342	...Textile or cellulosic base
305	...Nickel, copper, cobalt, or chromium coating	343	..Inorganic coating
306	....Organic base	344	...Silicon compound containing coating
307	.Etching, swelling, or dissolving out part of the base	345	.Coating material recirculation or regeneration
308	..Cellulosic base	346	.Movement of work treats coating (e.g., vibrating, tilting, etc.)
309	..Inorganic base		
310	.Fluxing	347	..Metal coating
311	..Supernatant flux (floating)	348	.Gas jet or blast mechanically treats coating
312	...Lead or tin coating		
313	..Lead or tin coating	349	..Metal coating
314	.Heating or drying pretreatment	350	.Vacuum or reduced pressure utilized
315	..Steam utilized		
316	..Organic base	351	..Wood base
317	...Wood base	352	.Liquid extraction of coating constituent or cleaning coating
318	..Metal base		
319	...Metal coating	353	..With water
320	....Aluminum coating	354	...Drying subsequent to washing
321	....Zinc or spelter coating (e.g., galvanizing, etc.)	355	.Solid treating member or material contacts coating
322	.Organic base	356	..Die, blade, or sharp-edged tool
		357	...Metal coating

358	...Organic coating	382	....Paper or natural cellulose base
359	..Roller, drum, or cylinder	383.1	..Metal coating
360	..Metal coating	383.3	...Inorganic base
361	...Paper base (e.g., calendering, etc.)	383.5	....Fused oxide-containing base (e.g., ceramic, glass, etc.)
362	....Cast coating	383.7	....Metal base
363	....Wax or oil containing coating	384	..Organic coating
364	....Casein or starch containing coating	385.5	...Resin, resin precursor, rubber, or hardenable oil-containing coating
365	...Treating between rollers (e.g., calendering, etc.)	386	....Epoxy or polyepoxide containing coating
366	....With heating (e.g., heated roller, etc.)	387	....Silicon compound containing coating
367	..Metal coating	388.1	....Metal base
368	..Brushing	388.2	....Cross-linked or infusible coating
369	..Pressure treatment of coating (e.g., squeezing, etc.)	388.3	.....Aldehyde-containing precursor
370	...With heating (e.g., hot ironing, etc.)	388.4	....Water-containing coating (i.e., aqueous dispersion, emulsion, or solution)
371	..Organic base	388.5	....Nonaqueous dispersion
372.2	..Heating or drying (e.g., polymerizing, vulcanizing, curing, etc.)	389	....Proteinaceous base (e.g., wool, leather, etc.)
373	..Cells, foam, or bubbles formed	389.7	....Glass base
374.1	..And cooling	389.8	....Fiberglass base
374.2	...Heating after cooling	389.9	....Textile or cellulose base
374.3	....Without intervening coating step	391	....Paper base
374.4	...Fused or molten coating cooled	392	....Natural cellulose base
374.5	....Liquid or solid cooling medium	393	....Wood base
374.6	....Vacuum, vapor, or gas other than air utilized	393.1	....Antistatic properties increased
374.7	....Vitreous or glazed coating	393.2	....Wrinkle resistance of crease holding properties increased
375	..Fusion or softening of coating	393.3	....Flame resistance increased
376.1	...Inorganic coating	393.4	....Antisoiling or water repellency increased
376.2	....Metal oxide- or silicon-containing coating (e.g., glazed, vitreous enamel, etc.)	393.5	....Resin, rubber, or elastomer base
376.3	.....Metal-containing coating (e.g., cermet, etc.)	393.6	....Asbestos, ceramic, concrete, or masonry base
376.4	.....Metal base	394	...Textile or cellulosic base
376.5	.....Ferrous base	395	....Paper base
376.6	....Metal-containing coating	396	....Natural cellulose base
376.7	.....Coating consists of metal	397	....Wood base
376.8	.....Metal base	397.7	..Inorganic silicon-containing coating
377	..Modified condition of atmosphere (e.g., steam, air movement, etc.)	397.8	...Alkali silicate
378	...Movement of atmosphere	398.1	..Cooling
379	..Plural heating or drying steps	398.2	..Utilizing solid member contacting base or coating (e.g., cooling roller, etc.)
380	...Metal or metallic compound containing coating		
381	...Textile or cellulosic base		

398.3	..Liquid utilized (e.g., quenching, spraying, etc.)	420	<b>FALLING CURTAIN OF COATING MATERIAL UTILIZED (I.E., CURTAIN COATING)</b>
398.4	..Vacuum, vapor, or gas other than air utilized	421.1	<b>SPRAYING</b>
398.5	..Movement of atmosphere	422	.Heated coating material
399	<b>BASE SUPPLIED CONSTITUENT</b>	424	.Moving the base
400	.Resin or rubber base	425	..Rotating or inverting
401	<b>COMBINED</b>	426	.Ingredients supplied separately
402	<b>APPLYING SUPERPOSED DIVERSE COATING OR COATING A COATED BASE</b>	427	.Inorganic coating material
403	.Settable inorganic coating (e.g., cement, etc.)	427.1	.Using nozzle or projector supported or guided by base (e.g., work, workpiece, etc.) during coating
404	.Metal coating	427.2	.With programmed control or using mechanized nozzle or projector (e.g., robotic sprayer, etc.)
405	..Metal base	427.3	.Moving nozzle or projector
406	...Zinc coating	427.4	.Polymer containing coating material
407.1	.Synthetic resin coating	427.5	..Metal base
407.2	..Glass base	427.6	..Organic compound containing base
407.3	...Fiberglass base	427.7	.Organic compound containing base
408	..Wood base	428.01	<b>ROLLER APPLICATOR UTILIZED (E.G., PADDING, ETC.)</b>
409	..Metal base	428.02	.Single roller applies plural layers of same coating material to base
410	...Epoxy or polyepoxide containing coating	428.03	.Roller composed of three or more layers used
411	..Paper base	428.04	.Tapered roller used
412	..Textile or leather base	428.05	.Fibrous or porous surface roller used
412.1	..Nonfibrous organic base	428.06	.Grooved or textured surface roller used
412.2	...Cellulose derivative base	428.07	.Resilient (e.g., rubber, etc.) surface roller used
412.3	...Polyolefin base	428.08	..Plural roller applicators used
412.4	...Halogen-containing resin base	428.09	..Opposed, counter, or reverse surface movement at contact between roller applicator and base
412.5	...Polyester or alkyd resin base	428.1	..Including using roller backup support for base
413	.Natural rubber or derivative containing coating	428.11	.Opposed, counter, or reverse surface movement at contact between roller applicator and base
414	.Protein or derivative containing coating (e.g., casein, glue, gelatin, etc.)	428.12	..And using transfer roller to feed coating material to roller applicator
415	.Cellulosic coating	428.13	.And roller end dams used
416	.Wax containing coating	428.14	.And doctor or roller used to distribute coating material on roller applicator
417	.Natural resin, oil, or fat containing		
418	..Metallic compound-containing coating		
419.1	.Metallic compound-containing coating		
419.2	..Oxide-containing coating		
419.3	...Superposed diverse oxide coatings		
419.4	....Vitreous coating		
419.5	...Organic coating		
419.6	...Vitreous coating		
419.7	..Boride, carbide, nitride, phosphide, silicide, or sulfide-containing coating		
419.8	..Organometallic or metal salt of organic compound-containing coating		

- 428.15 ..And using transfer roller to feed coating material to roller applicator
- 428.16 ..And guiding base to follow surface curvature of roller applicator
- 428.17 ..Including using roller backup support for base
- 428.18 ..Including using force to supply coating material to roller applicator
- 428.19 ..Through nozzle or projector
- 428.2 ..Direct contact of roller applicator with coating material supply bath used
- 428.21 ..Including using roller backup support for base
- 429 **BRUSH OR ABSORBENT APPLICATOR UTILIZED**
- 430.1 **IMMERSION OR PARTIAL IMMERSION**
- 431 ..Molten metal or fused salt bath
- 432 ..Inert gas or nonoxidizing atmosphere utilized
- 433 ..Lead, zinc, or tin coating (e.g., galvanizing, etc.)
- 434.2 ..Running lengths
- 434.3 ..Coating applied at surface of bath only
- 434.4 ..Base treated by solid member in bath (e.g., scraped, squeezed, etc.)
- 434.5 ..Coating material moved (e.g., agitated, circulated, etc.)
- 434.6 ..Cord, thread, yarn, wire, or rod
- 434.7 ...Extending through bath-containing wall
- 435 ..Metal base
- 436 ..Metal coating
- 437 ...Chemical compound reducing agent utilized (i.e., electroless deposition)
- 438 ....Nickel coating
- 439 ..Cellulosic base
- 440 ..Wood base
- 441 ...Creosote, wax, oil, asphalt, or bitumen containing coating
- 442 ..Wax, oil, asphalt, or bitumen containing coating
- 443 ..Wax, oil, asphalt, or bitumen containing coating
- 443.1 ..Chemical compound reducing agent utilized (i.e., electroless deposition)
- 443.2 ..Inorganic base

- 444 **PRETREATMENT, PER SE, OR POST-TREATMENT, PER SE (WITHOUT CLAIMED COATING)**
- 445 **MISCELLANEOUS**

**CROSS-REFERENCE ART COLLECTIONS**

- 900 **CHEMICAL VAPOR INFILTRATION (I.E., CVI)**
- 901 **LIQUID SOURCE CHEMICAL DEPOSITION (I.E., LSCVD) OR AEROSOL CHEMICAL VAPOR DEPOSITION (I.E., ACVD)**
- 903 **FULLERENE TYPE BASE OR COATING**
- 902 **DIAMOND-LIKE CARBON COATING (I.E., DLC)**
- 904 ..Utilizing low energy electromagnetic radiation (e.g., microwave, radio wave, IR, UV, visible, actinic laser, etc.)
- 905 ..Utilizing ion plating or ion implantation
- 906 ..Utilizing plasma (e.g., corona, glow discharge, cold plasma, etc.)

**FOREIGN ART COLLECTIONS****FOR 000 CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

**COATING BY VAPOR, GAS, OR SMOKE**

- FOR 100 ..Carbon or carbide coating (427/249)
- FOR 101 ..Base includes inorganic silicon or metal containing compound (e.g., glass, ceramic, brick, etc.) (427/255)

- FOR 102 .Mixture of vapors or gases  
utilized (427/255.1)
- FOR 103 ..The resultant coating is a  
mixture or a compound formed  
from the mixture utilized  
(427/255.2)
- FOR 104 ...The mixture utilized contains  
oxygen (427/255.3)
- ELECTRICAL PRODUCT PRODUCED (427/  
58)**
- FOR 105 .Integrated circuit, printed  
circuit, or circuit board  
(427/96)
- FOR 106 ..Coating hole walls (427/97)
- FOR 107 ..Immersion metal plating from  
solution (e.g., electroless  
plating, etc.) (427/98)
- FOR 108 ..Vapor deposition (427/99)
- FOR 109 **SPRAYING (427/421)**
- FOR 110 **ROLLER APPLICATOR UTILIZED (E.G.,  
PADDING, ETC.) (427/428)**